

FIG. 1A

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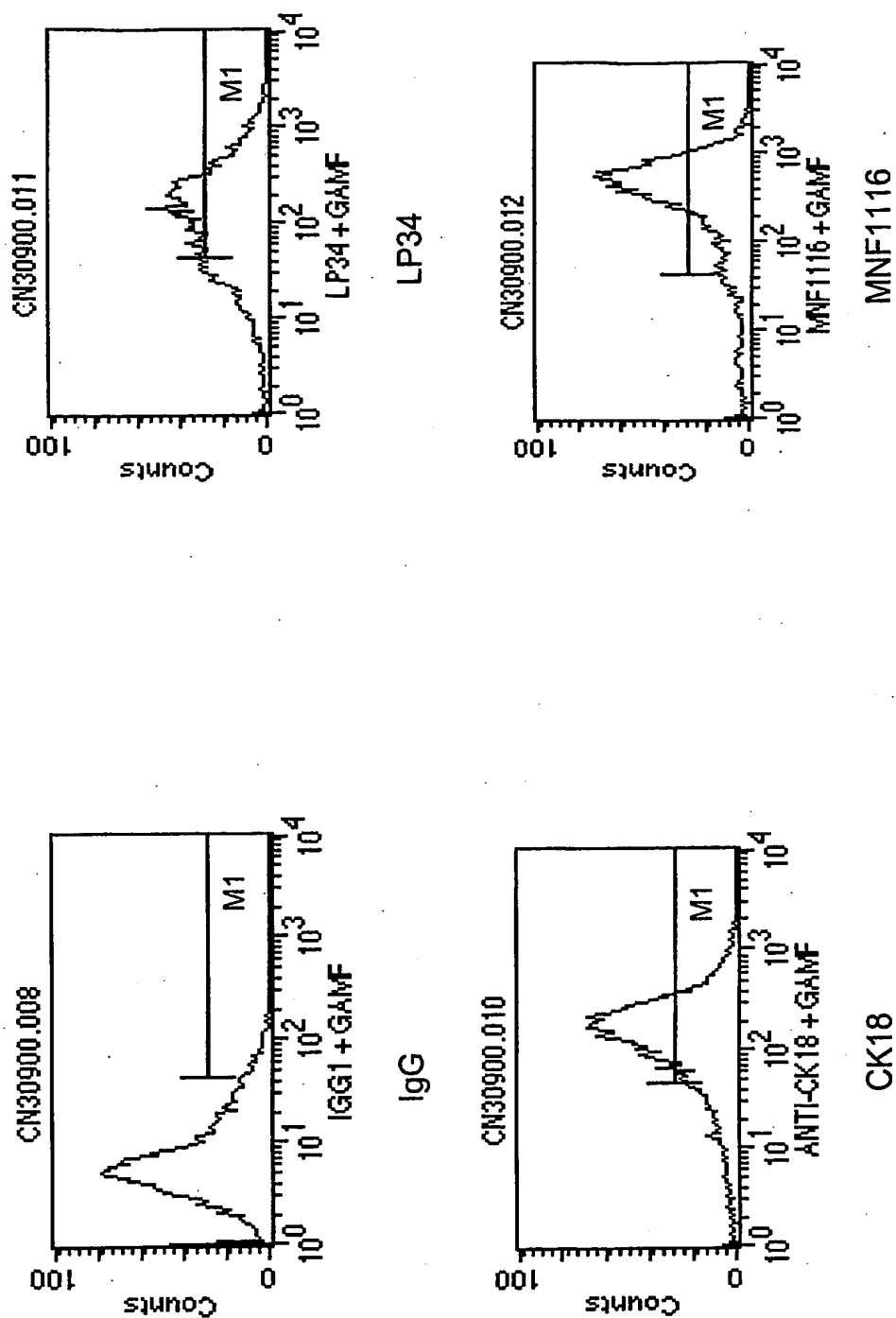


FIG. 1B

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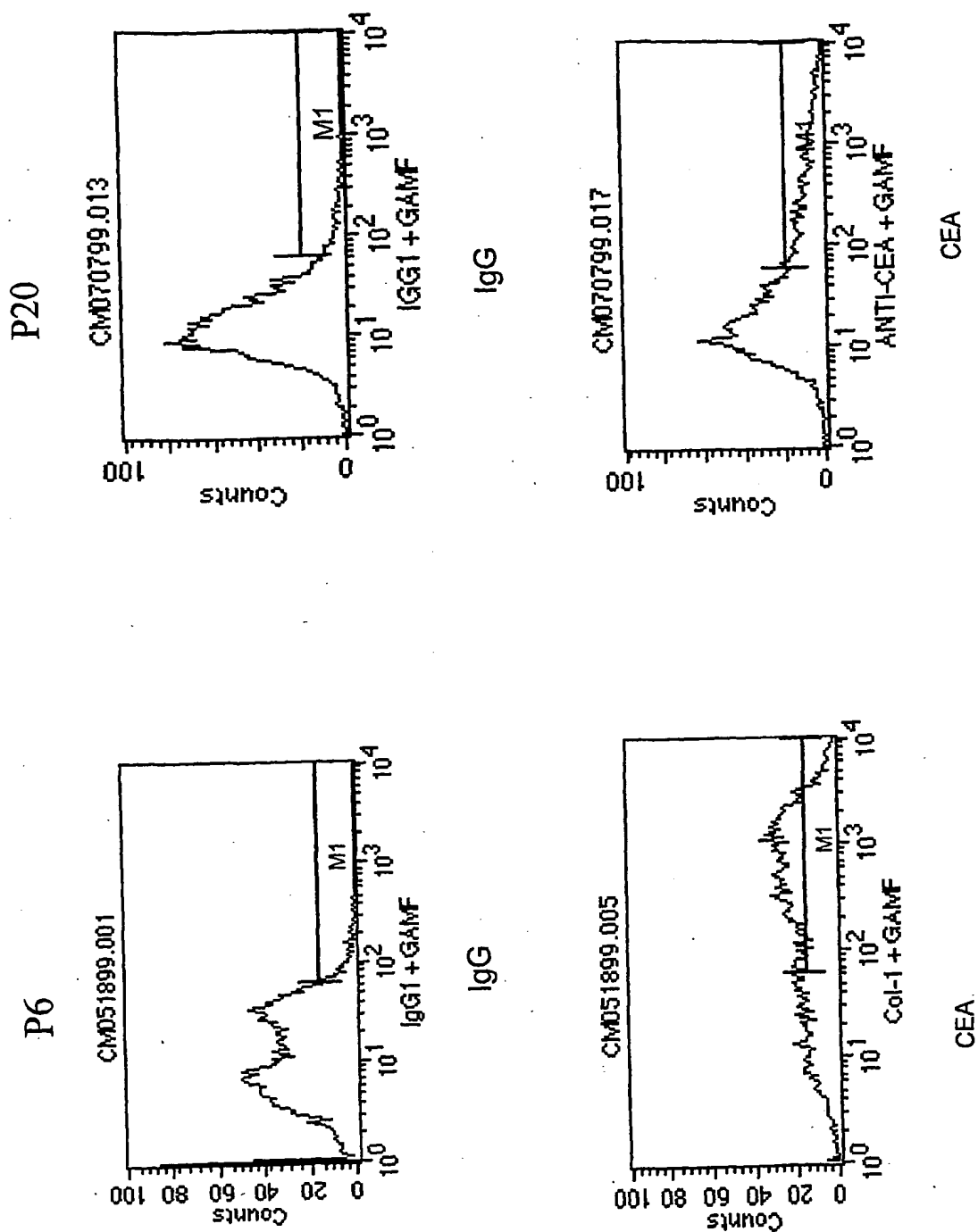


FIG 1C

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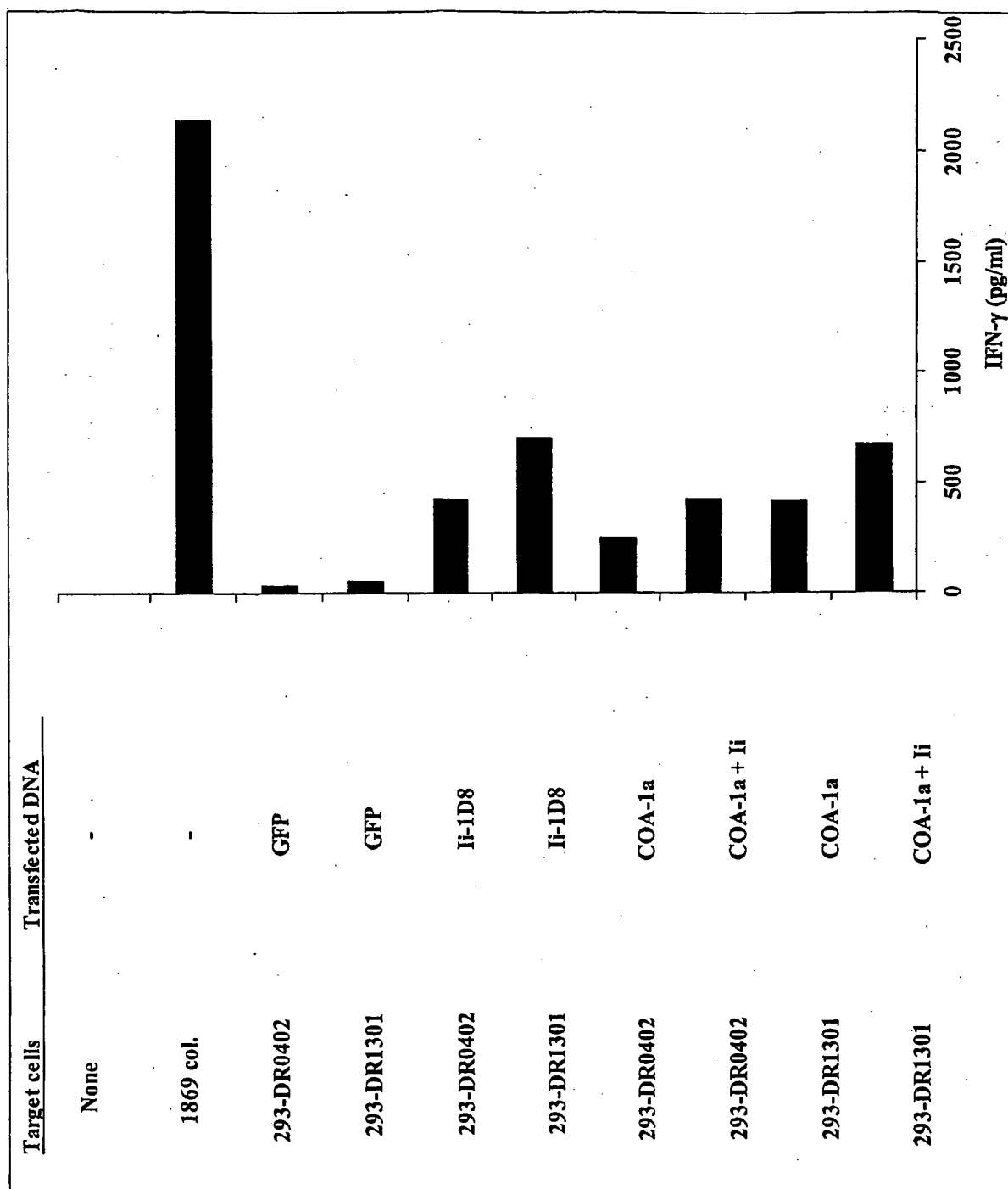


FIG. 2

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MAFMTRKLWD LEQQVKAQTD EILSKDQKIA ALEDLVQTLR PHPAEATLQR QEELETMCVQ 60
LQRQVREMER FLSDYGLQWV GEPMDQEDSE SKTVSEHGER DWMTAKKFWK PGDSLAPPEV 120
DFDRLLASLQ DLSELVVEGD TQVTPVPGGA RLRTLEPIPL KLYRNGIMMF DGPFQPFYDP 180
STQRCLRDIL DGFFPSELQR LYPNGVPFKV SDLRNQVYLE DGLDPFPGEG RVVGRQRMHK 240
ALDRVEEHPG SRMTAEKFLN RLPKFVIRQG EVIDIRGPIR DTLQNCCLP ARIQEIVVET 300
PTLAAERERS QESPNTAPP LSMLRIKSEN GEQAFLLMMQ PDNTIGDVRA LLAQARVMDA 360
SAFEIFSTFP PTLYQDDTLT LQAAGLVPKA ALLLRARR^A KSSLKFSPGP CPGPGPGPSP 420
GPGPGSSPCP GPSPSPQ 437

Alanine at
position 399

FIG. 3

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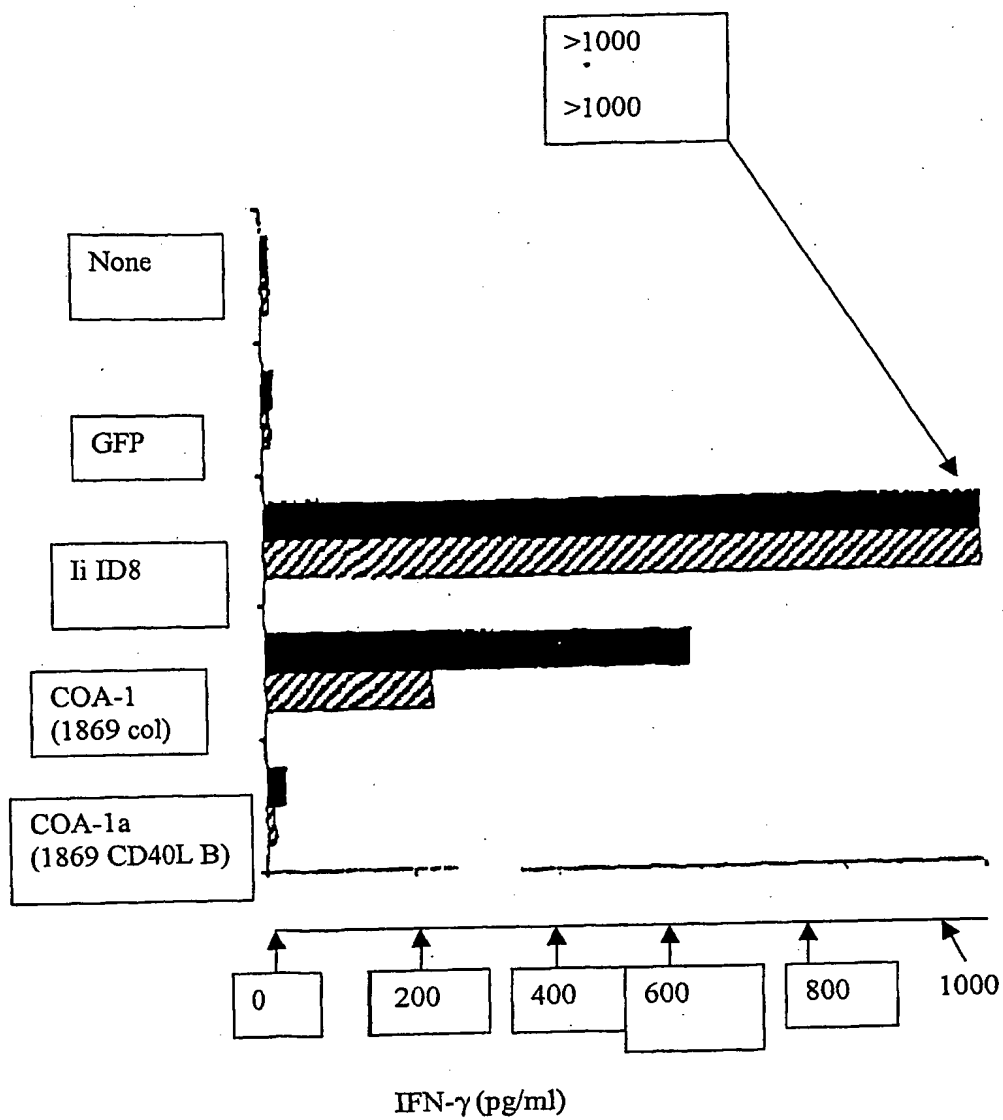


FIG. 4

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cgctgcggga cggctagcgg ccctgcgtgg aggcgaggaa tccgcatcta tggagatgtc 60
 cctgcacccc atgactcgga gctg atg gcc ttc atg acg agg aag ttg tgg 111
 Met Ala Phe Met Thr Arg Lys Leu Trp
 1 5
 gac ctg gag cag cag gtg aag gcc cag act gat gag ata ctg tcc aag 159
 Asp Leu Glu Gln Gln Val Lys Ala Gln Thr Asp Glu Ile Leu Ser Lys
 10 15 20 25
 gat cag aag ata gcg gcc cta gag gac ctg gtg cag acc ctc cgg cca 207
 Asp Gln Lys Ile Ala Ala Leu Glu Asp Leu Val Gln Thr Leu Arg Pro
 30 35 40
 cac cca gcc gag gca acc ctg cag cgg cag gag gaa ctg gag acg atg 255
 His Pro Ala Glu Ala Thr Leu Gln Arg Gln Glu Glu Leu Glu Thr Met
 45 50 55
 tgt gtg cag ctg cag cgg cag gtc agg gag atg gag cgg ttc ctc agt 303
 Cys Val Gln Leu Gln Arg Gln Val Arg Glu Met Glu Arg Phe Leu Ser
 60 65 70
 gac tat ggc ctg cag tgg gtg ggc gag ccc atg gac cag gag gac tca 351
 Asp Tyr Gly Leu Gln Trp Val Gly Glu Pro Met Asp Gln Glu Asp Ser
 75 80 85
 gag agc aag aca gtc tca gag cat ggc gag agg gac tgg atg aca gcc 399
 Glu Ser Lys Thr Val Ser Glu His Gly Glu Arg Asp Trp Met Thr Ala
 90 95 100 105
 aag aag ttc tgg aag cca ggg gac tca ttg gcg ccc cct gag gtg gac 447
 Lys Lys Phe Trp Lys Pro Gly Asp Ser Leu Ala Pro Pro Glu Val Asp
 110 115 120
 ttt gac agg ctg ctg gcc agc ctg cag gat ctt agt gag ctg gtg gta 495
 Phe Asp Arg Leu Leu Ala Ser Leu Gln Asp Leu Ser Glu Leu Val Val
 125 130 135
 gag ggt gac acc caa gtg aca cca gtg ccc ggc ggg gca cgg ctg cgt 543
 Glu Gly Asp Thr Gln Val Thr Pro Val Pro Gly Gly Ala Arg Leu Arg
 140 145 150
 acc ctc gag ccc atc ccg ctg aag ctc tac cgg aat ggc atc atg atg 591
 Thr Leu Glu Pro Ile Pro Leu Lys Leu Tyr Arg Asn Gly Ile Met Met
 155 160 165
 ttc gac ggg ccc ttc cag ccc ttc tac gat ccc tcc aca cag cgc tgc 639
 Phe Asp Gly Pro Phe Gln Pro Phe Tyr Asp Pro Ser Thr Gln Arg Cys
 170 175 180 185
 ctc cga gac ata ttg gat ggc ttc ttt ccc tca gag ctc cag cga ctg 687
 Leu Arg Asp Ile Leu Asp Gly Phe Phe Pro Ser Glu Leu Gln Arg Leu
 190 195 200
 tac ccc aat ggg gtc ccc ttt aag gtg agt gac ttg cgc aat cag gtc 735
 Tyr Pro Asn Gly Val Pro Phe Lys Val Ser Asp Leu Arg Asn Gln Val
 205 210 215

FIG. 5

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tac ctg gag gat gga ctg gac ccc ttc cca ggc gag ggc cgt gtg gtg	783
Tyr Leu Glu Asp Gly Leu Asp Pro Phe Pro Gly Glu Gly Arg Val Val	
220 225 230	
ggc agg cag cgg atg cac aag gcc ttg gac agg gtg gag gag cac cca	831
Gly Arg Gln Arg Met His Lys Ala Leu Asp Arg Val Glu Glu His Pro	
235 240 245	
ggc tcc agg atg act gct gag aaa ttt ctg aac agg ctc ccc aag ttt	879
Gly Ser Arg Met Thr Ala Glu Lys Phe Leu Asn Arg Leu Pro Lys Phe	
250 255 260 265	
gtg atc cgg caa ggc gag gtg att gac atc cgg ggc ccc atc agg gac	927
Val Ile Arg Gln Gly Glu Val Ile Asp Ile Arg Gly Pro Ile Arg Asp	
270 275 280	
acc ttg cag aac tgc tgc cca ttg cct gcc cgg atc cag gag att gtg	975
Thr Leu Gln Asn Cys Cys Pro Leu Pro Ala Arg Ile Gln Glu Ile Val	
285 290 295	
gtg gag acg ccc acc ttg gcc gct gag cga gag agg agc cag gag tca	1023
Val Glu Thr Pro Thr Leu Ala Ala Glu Arg Glu Arg Ser Gln Glu Ser	
300 305 310	
ccc aac aca ccg gca ccc cgg ctc tcc atg ctg cgc atc aag tct gag	1071
Pro Asn Thr Pro Ala Pro Pro Leu Ser Met Leu Arg Ile Lys Ser Glu	
315 320 325	
aat ggg gaa cag gcc ttc cta ctg atg atg cag cct gac aac acc att	1119
Asn Gly Glu Gln Ala Phe Leu Leu Met Met Gln Pro Asp Asn Thr Ile	
330 335 340 345	
ggg gac gtg cga gct ctg cta gcg cag gcc agg gtc atg gat gcc tct	1167
Gly Asp Val Arg Ala Leu Leu Ala Gln Ala Arg Val Met Asp Ala Ser	
350 355 360	
gcc ttt gag atc ttc agc aca ttc ccg ccc acc ctc tac cag gac gat	1215
Ala Phe Glu Ile Phe Ser Thr Phe Pro Pro Thr Leu Tyr Gln Asp Asp	
365 370 375	
aca ctc acg ctg cag gct gca ggc ctt gtg ccc aaa gca gca ctg ctg	1263
Thr Leu Thr Leu Gln Ala Ala Gly Leu Val Pro Lys Ala Ala Leu Leu	
380 385 390	

Cytosine at position 1280

ctg cgg gca cgc cga gCc ccg aag tcc agc ctg aaa ttc agt cct ggt	
1311	
Leu Arg Ala Arg Arg Ala Pro Lys Ser Ser Leu Lys Phe Ser Pro Gly	
395 400 405	

Alanine at position 399

ccc tgt ccc ggt ccc ggt ccc ggc ccc agt ccc ggt ccc ggt ccc ggc	1359
Pro Cys Pro Gly Pro Gly Pro Gly Pro Ser Pro Gly Pro Gly Pro Gly	
410 415 420 425	

FIG. 5 cont.

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tcc agt ccc tgt ccc gga ccc agt ccc agc ccc caa taaagcaccc	1405
Ser Ser Pro Cys Pro Gly Pro Ser Pro Ser Pro Gln	
430 435	
acccccctc	1413

FIG. 5 cont.